



# *Land and Water Quality Division*

## *Monitoring Well Program Update*

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*By*

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# ***Monitoring Well Program Staff***

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- Maria Chavarin, Student Worker



# ***SAM Manual Revisions***

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- Permit Requirements – Exploratory or Test Borings and Geotechnical Borings
  - *Any boring in which a casing will be installed*
  - *Any boring that has a monitoring device installed*
  - *Any soil boring greater than 20 feet in depth*
  - *Any soil boring, 20 feet or less in depth, where the groundwater table is anticipated to be encountered*



## ***SAM Manual Revisions cont...***

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- Exploratory or Test Borings and Geotechnical Borings

*In areas where hazardous waste or hazardous materials have not been stored, are not now stored, are not proposed to be stored: or where soil and groundwater contamination is not known or suspected, a permit may be waived after review by DEH. For this determination submit a detailed site map and a description of the proposed work to assist in the evaluation.*



## ***SAM Manual Revisions Cont...***

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- Permit extension fee increased to \$45.00 from \$30.00
- Well logs due within 60 days of completion
- Driller's bond raised from \$2500 to \$7500
- All well construction and boring reports must have the original signature of the registered professional and logs must be stamped with their seal



# ***SAM Manual Revisions cont...***

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## Appendix B

### Temporary Wells and Destruction Requirements

*Temporary wells are considered to be exploratory borings and must be destroyed within 24 hours of construction. A monitoring well shall be destroyed by removing all material within the original borehole, including the casing, filter pack, and annular seal, with the remaining borehole being completely filled from the bottom of the borehole to the ground surface with an approved sealing material as specified in Bulletin 74-90*



# ***SAM Manual Revisions cont...***

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## Appendix B

- *Top of well casings should be surveyed to an accurate datum by a properly licensed professional*
- *In well construction diagrams, wording has been added stating that “the concrete surface seals must extend a minimum 36” below ground surface”*



## *Current Project Field-Based Research*

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- Mandate by SB 989
- Eight Counties including San Diego
- Effectiveness of new and upgraded UST's in California
- Two year project beginning June 2000
- Tracer Research selected as contractor



## *Field Based Research Cont...*

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- Preliminary Data
- Sacramento County
- 23 sites with total 73 UST's
- 65% exhibit vapor release
- Majority of leaks associated around fill and vapor recovery fittings
- One confirmed liquid release



## *Field Based Research Cont...*

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- San Diego County
- Monitoring Well permits issued for 20 sites.
- Preliminary data resembles Sacramento County
- Vapor leaks around fill pipes



# *Monitoring Well Program Calendar Year 2001*

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- Number of Permits...730
- Total number of activities...3215
  - 1387 borings
  - 423 destructions
  - 1055 monitoring wells
  - 450 other
- Number of Drilling Reports...792
- Number of Facility Inspections...544



## ***MW Inspection Goals***

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- 100% New Monitoring Wells
- 100% Destructions
- 25% Drilling inspections
- Once every 3 years, existing MW's
- Drilling reports reviewed within 30 days of receipt.



## *Monitoring Well Program and Beyond*

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- Triennial permits for Monitoring Wells
- Investigative fees for work without a permit
- Letters to consultant and driller clarifying their responsibilities when signing the permit application
- SB 525



# *Senate Bill 525*

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- Underground Storage Tank: MTBE
- Amendment Date 1/7/2002
- Install Environmental Monitoring System or Network
- Test soil and or groundwater annually for MTBE
- Send report to Local Implementing Agency
- Monitoring Well application submittal increase